

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

STABILISED CHLORINE GRANULES 55%

Version 2.3

Print Date 2012/08/17

Revision Date 2012/08/17

MSDS code: MAAD107

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : STABILISED CHLORINE GRANULES 55%

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : At this time we do not yet have information on identified uses. They will be included in this safety data sheet when available.

Uses advised against : At this moment we have not identified any uses advised against

1.3. Details of the supplier of the safety data sheet

Company : Brenntag UK & Ireland
Albion House, Rawdon Park
GB LS19 7XX Leeds Yeadon

Telephone : +44 (0) 113 3879 200
Telefax : +44 (0) 113 3879 280
E-mail address : msds@brenntag.co.uk

1.4. Emergency telephone number

Emergency telephone number : Emergency only telephone number (open 24 hours):
+44 (0) 1865 407333 (N.C.E.C. Culham)

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Directive 67/548/EEC or 1999/45/EC	
Hazard symbol / Category of danger	Risk phrases
Harmful (Xn)	R22
	R31
Irritant (Xi)	R36/37
Dangerous for the environment (N)	R50/53

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

STABILISED CHLORINE GRANULES 55%

Version 2.3

Print Date 2012/08/17

Revision Date 2012/08/17

MSDS code: MAAD107

For the full text of the R-phrases mentioned in this Section, see Section 16.

Most important adverse effects

Human Health : See section 11 for toxicological information.
 Physical and chemical hazards : See section 9 for physicochemical information.
 Potential environmental effects : See section 12 for environmental information.

2.2. Label elements

Labelling according to EC Directives 67/548/EEC or 1999/45/EC

Hazard symbols:



Harmful



Dangerous for the environment

R-phrase(s)	:	R22 R31 R36/37 R50/53	Harmful if swallowed. Contact with acids liberates toxic gas. Irritating to eyes and respiratory system. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	:	S 8 S26 S41 S61 S29	Keep container dry. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of fire and/or explosion do not breathe fumes. Avoid release to the environment. Refer to special instructions/ Safety data sheets. Do not empty into drains.

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

STABILISED CHLORINE GRANULES 55%

Version 2.3

Print Date 2012/08/17

Revision Date 2012/08/17

MSDS code: MAAD107

Hazardous components which must be listed on the label:

- troclosene sodium, dihydrate

2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5.

3. Composition/information on ingredients

3.2. Mixtures

Hazardous components	Amount [%]	Classification (REGULATION (EC) No 1272/2008)		Classification (67/548/EEC)
		Hazard class / Hazard category	Hazard statements	
troclosene sodium, dihydrate				
Index-No. : 613-030-01-7		Acute Tox.4	H302	Xn; R22
CAS-No. : 51580-86-0		Eye Irrit.2	H319	R31
EC-No. : 220-767-7		STOT SE3	H335	Xi; R36/37
C&L-No. : 02-2119752420-48-0000	>= 90 - < 100	Aquatic Acute1	H400	N; R50-R53
		Aquatic Chronic1	H410	

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

Non-hazardous component

Chemical Name	Identification Number	Amount [%]
Sodium chloride	CAS-No. : 7647-14-5 EC-No. : 231-598-3	>= 1 - < 10

4. First aid measures

4.1. Description of first aid measures

If inhaled : Remove to fresh air. Seek medical advice.

In case of skin contact : Wash off immediately with soap and plenty of water. Take off contaminated clothing and shoes immediately. Get medical

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

STABILISED CHLORINE GRANULES 55%

Version 2.3

Print Date 2012/08/17

Revision Date 2012/08/17

MSDS code: MAAD107

attention if irritation develops and persists.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

If swallowed : If swallowed, do not induce vomiting - seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms : See Section 11 for more detailed information on health effects and symptoms.

Effects : See Section 11 for more detailed information on health effects and symptoms.

4.3. Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.
No further information available.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Carbon dioxide (CO₂), Dry chemical, Foam

Unsuitable extinguishing media : No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting : Burning produces irritant fumes.

5.3. Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Wear personal protective equipment.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. Accidental release measures

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

STABILISED CHLORINE GRANULES 55%

Version 2.3

Print Date 2012/08/17

Revision Date 2012/08/17

MSDS code: MAAD107

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Ensure adequate ventilation.

6.2. Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

6.3. Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up : Use mechanical handling equipment. Sweep up and shovel. Keep in suitable, closed containers for disposal. Avoid dust formation. Flush away traces with water.

Further information : Treat recovered material as described in the section "Disposal considerations".

6.4. Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on personal protective equipment.
See Section 13 for waste treatment information.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : Avoid contact with the skin and the eyes. Ensure adequate ventilation.

Hygiene measures : Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday.

7.2. Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Further information on storage conditions : Keep tightly closed in a dry and cool place. Keep in a well-ventilated place.

Advice on common storage : Keep away from food, drink and animal feedingstuffs.

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

STABILISED CHLORINE GRANULES 55%

Version 2.3

Print Date 2012/08/17

Revision Date 2012/08/17

MSDS code: MAAD107

7.3. Specific end use(s)

Specific use(s) : No information available.

8. Exposure controls/personal protection

8.1. Control parameters

Other Occupational Exposure Limit Values

(Additional) Information : Contains no substances with occupational exposure limit values.

8.2. Exposure controls

Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.
Ensure adequate ventilation.

Personal protective equipment

Respiratory protection

Advice : Self-contained breathing apparatus (EN 133)

Hand protection

Advice : The glove material has to be impermeable and resistant to the product / the substance / the preparation.
Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Protective gloves should be replaced at first signs of wear.

Material : PVC

Eye protection

Advice : Safety goggles

Skin and body protection

Advice : Wear personal protective equipment.

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

STABILISED CHLORINE GRANULES 55%

Version 2.3

Print Date 2012/08/17

Revision Date 2012/08/17

MSDS code: MAAD107

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	:	solid
Colour	:	white
Odour	:	Chlorine
Odour Threshold	:	Currently we do not have any information from our supplier about this.
pH	:	6 - 7 (10 g/l; 25 °C)
Freezing point	:	Currently we do not have any information from our supplier about this.
Boiling point	:	Currently we do not have any information from our supplier about this.
Flash point	:	Currently we do not have any information from our supplier about this.
Evaporation rate	:	Currently we do not have any information from our supplier about this.
Flammability (solid, gas)	:	Currently we do not have any information from our supplier about this.
Upper explosion limit	:	Currently we do not have any information from our supplier about this.
Lower explosion limit	:	Currently we do not have any information from our supplier about this.
Vapour pressure	:	Currently we do not have any information from our supplier about this.

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

STABILISED CHLORINE GRANULES 55%

Version 2.3

Print Date 2012/08/17

Revision Date 2012/08/17

MSDS code: MAAD107

Relative vapor density	:	Currently we do not have any information from our supplier about this.
Relative density	:	Currently we do not have any information from our supplier about this.
Water solubility	:	0.28 g/l (25 °C)
Partition coefficient: n-octanol/water	:	Currently we do not have any information from our supplier about this.
Ignition temperature	:	Currently we do not have any information from our supplier about this.
Thermal decomposition	:	Currently we do not have any information from our supplier about this.
Viscosity, dynamic	:	Currently we do not have any information from our supplier about this.
Explosivity	:	Currently we do not have any information from our supplier about this.
Oxidizing properties	:	Currently we do not have any information from our supplier about this.

9.2. Other information

No further information available.

10. Stability and reactivity

10.1. Reactivity

Advice : No information available.

10.2. Chemical stability

Advice : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : No information available.

10.4. Conditions to avoid

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

STABILISED CHLORINE GRANULES 55%

Version 2.3

Print Date 2012/08/17

Revision Date 2012/08/17

MSDS code: MAAD107

Conditions to avoid : No information available.

10.5. Incompatible materials

Materials to avoid : No information available.

10.6. Hazardous decomposition products

Hazardous decomposition products : No information available.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Oral

Harmful if swallowed., Ingestion may cause irritation to mucous membranes.

Inhalation

Symptoms: Vomiting, Dizziness
Irritating to respiratory system.

Dermal

Currently we do not have any information from our supplier about this.

Irritation

Skin

May irritate skin.

Eyes

Irritating to eyes.

Sensitisation

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

STABILISED CHLORINE GRANULES 55%

Version 2.3

Print Date 2012/08/17

Revision Date 2012/08/17

MSDS code: MAAD107

Currently we do not have any information from our supplier about this.

CMR effects

CMR Properties

- Carcinogenicity : Currently we do not have any information from our supplier about this.
- Mutagenicity : Currently we do not have any information from our supplier about this.
- Teratogenicity : Currently we do not have any information from our supplier about this.
- Reproductive toxicity : Currently we do not have any information from our supplier about this.

Specific Target Organ Toxicity

Single exposure

Currently we do not have any information from our supplier about this.

Repeated exposure

Currently we do not have any information from our supplier about this.

Aspiration toxicity

Currently we do not have any information from our supplier about this.

12. Ecological information

12.1. Toxicity

12.2. Persistence and degradability

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

STABILISED CHLORINE GRANULES 55%

Version 2.3

Print Date 2012/08/17

Revision Date 2012/08/17

MSDS code: MAAD107

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

Additional ecological information

Result : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. Disposal considerations

13.1. Waste treatment methods

Product : Dispose of in accordance with local regulations.

Contaminated packaging : Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

European Waste Catalogue Number : No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

14. Transport information

14.1. UN number

3077

14.2. UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

STABILISED CHLORINE GRANULES 55%

Version 2.3

Print Date 2012/08/17

Revision Date 2012/08/17

MSDS code: MAAD107

14.3. Transport hazard class(es)

ADR-Class (Labels; Classification Code; Hazard identification No; Tunnel restriction code)	: 9 9; M7; 90; (E)
RID-Class (Labels; Classification Code; Hazard identification No)	: 9 9; M7; 90
IMDG-Class (Labels; EmS)	: 9 9; F-A, S-F

14.4. Packaging group

ADR	: III
RID	: III
IMDG	: III

14.5. Environmental hazards

Labeling according to 5.2.1.8 ADR	: Fish and tree
Labeling according to 5.2.1.8 RID	: Fish and tree
Labeling according to 5.2.1.6.3 IMDG	: Fish and tree
Classification as environmentally hazardous according to 2.9.3 IMDG	: yes

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IMDG	: Not applicable.
------	-------------------

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. Chemical Safety Assessment

Currently we do not have any information from our supplier about this.

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

STABILISED CHLORINE GRANULES 55%

Version 2.3

Print Date 2012/08/17

Revision Date 2012/08/17

MSDS code: MAAD107

16. Other information

Full text of R-phrases referred to under sections 2 and 3.

R22	Harmful if swallowed.
R31	Contact with acids liberates toxic gas.
R36/37	Irritating to eyes and respiratory system.
R50	Very toxic to aquatic organisms.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53	May cause long-term adverse effects in the aquatic environment.

Full text of H-Statements referred to under sections 2 and 3.

H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Further information

Other information : The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship. The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

|| Indicates updated section.